Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
06618-696001

Application No.

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
Dean M. Philipp et al.Filing Date
September 12, 2001

Group Art Unit

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
RR	AA	5,015,749	05/14/1991	Schmidt et al.			
RR	AB	5,057,475	10/15/1991	Canich et al.			
RR	AC	4,544,762	10/01/1985	Kaminsky et al.			
RR	AD	5,234,878	08/10/1993	Tsutsui et al.			
RR	AE	5,003,095	03/26/1991	Beard			
	AF						
	AG						
	AH						
	AI						

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Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
RR	AJ	wo 99/09/27124	06/25/1998	WIPO				
	AK							
	AL							
	AM							
	AN							

Other Documents (include Author, Title, Date, and Place of Publication)

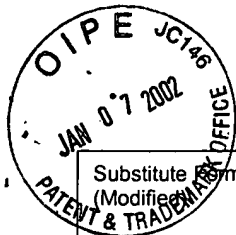
Examiner Initial	Desig. ID	Document
RR	AO	Boffa et al., "Copolymerization of Polar Monomers with Olefins Using Transition-Metal Complexes", <i>Chemical Reviews</i> , (April 2000) 100:1479-1493
RR	AP	Kesti et al., "Homogenous Zeigler-Natta Polymerization of Functionalized Monomers Catalyzed by Cationic Group IV Metallocenes", <i>Journal of the American Chemical Society</i> , (November 1992) 114:9679-9680
RR	AQ	Deng et al., "A Density Functional Study of Nickel (II) Diimide Catalyzed Polymerization of Ethylene", <i>Journal of the American Chemical Society</i> , (February 1997) 119:1094-1100
RR	AR	Musaev et al., "A Density Functional Study of the Mechanism of the Diimine-Nickel Catalyzed Ethylene Polymerization Reaction", <i>Journal of the American Chemical Society</i> , (January 1997) 119:367-374
RR	AS	Johnson et al., "New Pd(II) and Ni(II)-Based Catalysts for Polymerization of Ethylene and α -Olefins", <i>Journal of the American Chemical Society</i> , (June 1995) 117:6414-6415

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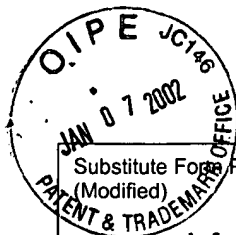
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Examiner Initial	Desig. ID	Document
PR	AT	Ewen et al., "Syndiospecific Propylene Polymerizations with Group 4 Metallocenes", <i>Journal of the American Chemical Society</i> , (August 1988) 110:6255-6256
PR	AU	Coughlin et al, "Iso-Specific Ziegler—Natta Polymerization of α -Olefins with a Single-Component Organoyttrium Catalyst", <i>Journal of the American Chemical Society</i> , (September 1992) 114:7606-7607
PR	AV	Mecking et al., "Mechanistic Studies of the Palladium-Catalyzed Copolymerization of Ethylene and α -Olefins with Methyl Acrylate", <i>Journal of the American Chemical Society</i> , (February 1998) 120:888—899
PR	AW	Ewen, John A., "Mechanisms of Stereochemical Control in Propylene Polymerizations with Soluble Group 4B Metallocene/Methylalumoxane Catalysts", <i>Journal of the American Chemical Society</i> , (October 1984) 106:6355-6364
PR	AX	Small et al., "Highly Active Iron and Cobalt Catalysts for the Polymerization of Ethylene", <i>Journal of the American Chemical Society</i> , (April 1998) 120:4049-4050
PR	AY	Tempel et al., "Mechanistic Studies of Pd(II)— α -Diimine-Catalyzed Olefin Polymerizations", <i>Journal of the American Chemical Society</i> , (July 2000) 122:6686-6700
PR	AZ	Cossee, P., "Ziegler-Natta Catalysis I. Mechanisms of Polymerization of α -Olefins with Ziegler-Natta Catalysts", <i>Journal of Catalysis</i> , (1964) 3:80-88
PR	AAA	Arlman, E. J., "Ziegler-Natta Catalysis II. Surface Structure of Layer-Lattice Transition Metal Chlorides", <i>Journal of Catalysis</i> , (1964) 3:89-98
PR	ABB	Arlman et al., "Ziegler-Natta Catalysis III. Stereospecific Polymerization of Propene with the Catalyst System $\text{TiCl}_3\text{-AlEt}_3$ ", <i>Journal of Catalysis</i> , (1964) 3:99-104
PR	ACC	Andresen et al., "Halogen-Free Soluble Ziegler Catalysts for the Polymerization of Ethylene, Control of Molecular Weight by Choice of Temperature", <i>Angewandte Chemie. Int'l. Edition in English</i> , (1976) 15:630-632
PR	ADD	Kaminsky et al., "Polymerization of Propene and Butene with a Chiral Zirconocene and Methylalumoxane as Cocatalyst", <i>Angewandte Chemie, Int'l. Edition in English</i> , (1985) 24:507-508
PR	AEE	Britovsek, et al., "Novel Olefin Polymerization Catalysts Based on Iron and Cobalt", <i>Chemical Communications</i> , (1998) 849-850
PR	AFF	Musaeu et al., "Density Functional Study of the Mechanism of the Palladium (II)-Catalyzed Ethylene Polymerization Reaction", <i>Organometallics</i> , (April 1997) 16:1933-1945
PR	AGG	Chung, T.C., "Synthesis of Polyalcohols Via Ziegler-Natta Polymerization", <i>Macromolecules</i> , (March 1988) 21:865-869
PR	AHH	Chung et al., "Kinetic Aspects of the Copolymerization Between α -Olefins and Borane Monomer in Ziegler-Natta Catalyst", <i>Macromolecules</i> , (June 1993) 26:3019-3025
PR	AII	Aaltonen et al., "Synthesis of Functional Polyethylene with Soluble Metallocene/Methylaluminoxane Catalyst", <i>Macromolecules</i> , (July 1995) 28:5353-5357
PR	AJJ	Galimberti, et al., "Functionalized Polymers from Ziegler-Natta Catalysts", <i>Journal of Molecular Catalysis</i> , (July 1995) 101:1-10
PR	AKK	Becke, A.D., "Density-Functional Exchange-Energy Approximation With Correct Asymptotic Behavior", <i>Physical Review A: General Physics</i> , (September 1988) 38:3098-3100
PR	ALL	Becke, A. D., "Density-Functional Thermochemistry. III. The Role of Exact Exchange", <i>The Journal of Chemical Physics</i> , (April 1993) 98:5648-5652

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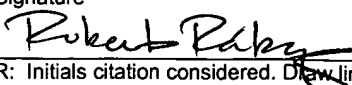
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PR	AMM	Vosko et al., "Accurate Spin-Dependent Electron Liquid Correlation Energies for Local Spin Density Calculations: A Critical Analysis", <i>Canadian Journal of Physics</i> , (August 1980) <u>58</u> :1200-1211
PR	ANN	Chengteh et al., "Development of the Colle-Salvetti Correlation-Energy Formula Into a Functional of the Electron Density", <i>Physical Review B: Condensed Matter</i> , (January 1988) <u>37</u> :785-789
PR	AOO	Hay et al., "Ab Initio Effective Core Potentials for Molecular Calculations. Potentials for K to Au Including the Outermost Core Orbitals", <i>The Journal of Chemical Physics</i> , (January 1985) <u>82</u> :299-310
PR	APP	Tannor et al., "Accurate First Principles Calculation of Molecular Charge Distributions and Solvation Energies from Ab Initio Quantum Mechanics and Continuum Dielectric Theory", <i>Journal of the American Chemical Society</i> , (December 1994) <u>116</u> :11875-11882
PR	AQQ	Marten et al., "New Model for Calculation of Solvation Free Energies: Correction of Self-Consistent Reaction Field Continuum Dielectric Theory for Short-Range Hydrogen-Bonding Effects", <i>The Journal of Physical Chemistry</i> , (July 1996) <u>100</u> :11775-11788
PR	ARR	Cortis et al., "An Automatic Three-Dimensional Finite Element Mesh Generation System for the Poisson-Boltzmann Equation", <i>Journal of Computational Chemistry</i> , (1997) <u>18</u> :1570-1590

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